BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Modified Estimate for Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division**

Modified Estimated Cost : **89,15,050.27**

Job Code : **006-20-0000163**

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work : Modified Estimate for Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division

Estimated Cost : Rs 100.00 Lakhs						Job No : 006-20-000163		
Description of work	Unit	Measurements				Qty	Rate	Amount
		No	L	B	D			
KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **P.No. 140/ Item No. 18.47 /**	cum							
Dismantling Existing fully damaged CC road								
ROAD		1	72.00	4.40	0.25	79.20		
		1	102.00	4.45	0.25	113.48		
		1	28.00	4.50	0.25	32.00		
		1	34.00	4.60	0.25	39.73		
		1	36.00	4.50	0.25	40.50		
						304.90	TR 952.94	290555.79
As per Sch-B Qty 428.90								
KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ It No 19.1/ PWD SR	cum							
For drain								
Drain L/s		1	206.00	1.05	1.00	216.30		
R/s		1	355.00	1.05	1.00	372.75		
		2	40.00	1.05	1.00	84.00		
ROAD		1	72.00	4.40	0.30	96.31		
		1	102.00	4.45	0.25	115.29		
		1	28.00	4.50	0.30	38.30		
		1	34.00	4.65	0.30	48.06		
		1	36.00	4.50	0.30	49.25		
Culverts		9	5.00	2.10	1.00	94.50		
Desilting of Drain		1	145.00	0.70	0.35	35.93		
						1150.69	TR 137.90	158680.59

As per Sch-B Qty 1265.95								
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 20kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 **Page No. 222 / It No. 27.18/ PWD SR 2018-19**	**cum**							
For Drain								
Drain L/s		1	206.00	1.05	0.15	32.45		
R/s		1	355.00	1.20	0.15	63.90		
		2	40.00	1.05	0.15	12.60		
ROAD		1	72.00	4.40	0.15	47.52		
		1	102.00	4.45	0.15	68.09		
		1	28.00	4.50	0.15	18.90		
		1	34.00	4.65	0.15	23.72		
		1	36.00	4.50	0.15	24.30		
Culverts		9	5.00	2.10	0.15	14.18		
Ramps		4	5.00	0.60	0.15	1.80		
						307.44	TR 5421.90	1666908.94
As per Sch-B Qty 402.02								
KSRB 5.3-3 **Providing and constructing granite / trap / basalt size stone** masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 25/ It No. 5.9/ PWD SR 2018-19**	Cum							
For Culverts		7*2	5.00	0.60	0.90	37.80		
		2*2	5.00	0.60	0.60	7.20		
						45.00	TR 5811.98	261539.10
As per Sch-B Qty 46.08								

KSRRB M 1200-15.2: Plain / Reinforced cement concrete M20 with OPC Cement @ 320kgs, with 20mm and down size graded granite metal coars aggreagates @0.69 cum and fine aggreagates @ 0.46 cum, with superplastiser@ 3lts confirming to IS9103 -1999 Reaffirmed 2008, in open foundation complete as per drawing and technical specifications case-II, with batching plant transist mixer and concrete MORTH specification No. 1500, 1700 & 2100,/P No. 222/ Item No. 27.27/ PWD SR 2018 19	cum							
Culverts coping		9	5.00	1.80	0.15	12.15		
		1	130.00	0.70	0.15	13.65		
As per Sch-B Qty 19.44						**25.80**		
up to 125% Qty 24.30						24.30	TR 5148.42	125106.61
above 125% Qty						1.50	TR 5148.42	7722.63
KSRB 15.1.3: **Providing FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 115/ Item No. 15.1/ PWD SR 2018-19	Sqm							
Culverts		9X2	5.00		0.60	54.00		
As per Sch-B Qty 43.20						**54.00**	TR 149.46	8070.84
up to 125% Qty 54.0 0								
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200.including cost of materials, labour, HOM complete as per specifications.-do Wall & bottom thickness 15cm. **PWD SR 2018-19 P. No 271 It No 37.59.2**	cum							
For Drain Bed								
L/s		1	209.00	0.90	0.15	28.22		
R/s		1	362.00	1.05	0.15	57.02		
		2	40.00	1.05	0.15	12.60		

Drain wall		2	209.00	0.15	0.60	37.62		
		2	362.00	0.15	0.70	76.02		
		2x2	40.00	0.15	0.70	16.80		
As per Sch-B Qty 161.21						**211.47**		
up to 125% Qty 201.51						201.51	TR 7070.20	1424716.00
above 125% Qty						9.96	TR 7070.20	70419.19
KSRRB M2200-6. **Providing T.M.T. steel reinforcement for R.C.C. work** including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 **PWD SR 2018-19 P.No**	Tonne							
0.65 Ton/Cum		0.065	211.47			**13.75**		
As per Sch-B Qty 10.64						**13.75**		
up to 125% Qty 13.30						13.30	TR 72326.98	961948.83
above 125% Qty						0.45	TR 72326.98	32225.29
Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	sqm							
Side Drain		1	209.00	0.75		156.75		
		1	362.00	0.90		325.80		
		2	40.00	0.75		60.00		
		1	145.00	1.20		174.00		
Missing slabs		2	20.00	0.90		36.00		
		2	15.00	0.90		27.00		
As per Sch-B Qty 488.40						**779.55**		
up to 125% Qty 610.50						610.50	TR 2337.00	1426738.50
above 125% Qty						169.05	TR 2337.00	395069.85

)	Providing and fixing **RCC precast cover slab of 250mm** thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	**sqm**							
	For Culverts		9	5.00	1.50		67.50		
	As per Sch-B Qty 72.00						**67.50**	TR 5418.00	365715.00
	Road work								
1	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to	cum							
	Road		1	72.00	4.40	0.15	47.52		
			1	102.00	4.45	0.15	68.09		
			1	28.00	4.50	0.15	18.90		
			1	34.00	4.60	0.15	23.46		
			1	36.00	4.50	0.15	24.30		
	As per Sch-B Qty 290.93						**182.27**	TR 5210.96	949775.62
	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR	**Sqm**							
	Road		1	72.00	4.40		316.80		

		1	102.00	4.45		453.90		
		1	28.00	4.50		126.00		
		1	34.00	4.60		156.40		
		1	36.00	4.50		162.00		
As per Sch-B Qty 2144.50						**1215.10**	TR 72.08	87584.41
Pipe line work								
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR-2018-19)	cum							
		3	145.00	0.60	0.90	234.90		
As per Sch-B Qty 234.90						**234.90**	TR 475.94	111798.31
Providing and installing at site of work 63mm (0.662) **PVC Pipes** of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete.	**Rmtr**							
		3	145.00			435.00		
						435.00	TR 202.91	88265.85
As per Sch-B Qty 435.00								
KSRB 2.4 : **Reflling available earth around pipe lines,** cables in layers not layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (P 7 it 2.11)	**cum**							
As per Sch-B Qty 234.90						**234.90**	TR 134.62	31622.24

KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19	Cum							
		Qty Vide Item No. 1+2				1455.60		
As per Sch-B Qty 1265.95						**1455.60**	TR 73.99	107699.68
up to 125% Qty 1582.44								
						Sub Total		**8572163.27**
For 3% KRIDL Charges								257165.00
For 1% Labour Cess								85722.00
						Grand Total		8915050.27

Estimate Sanction amount Rs =10000000.00

Aggriment Amount Rs = 89,16,898.89 (Excluding GST)

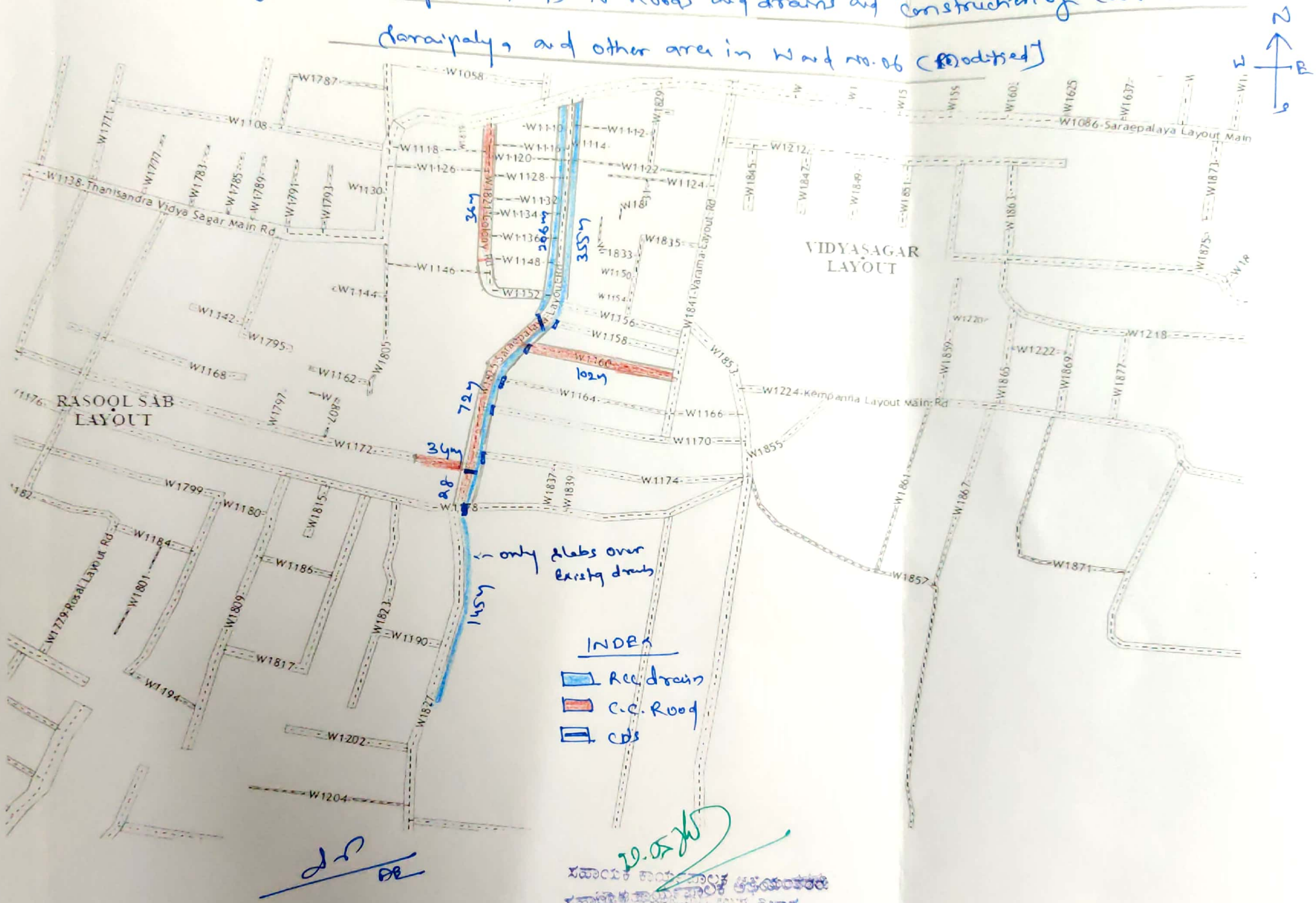
Assistant Engineer

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Byatarayanapura Sub Division

Technical Sanction
Accorded For Rs.8915050.27
Head of A/C. P1878
CER NO :...52..... Dt:16.12.2020

Name of work: Improvements to Roads and drains and construction of culverts at Saraipalya and other area in Ward no. 06 (Modified)



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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಪೂರ್ವ ವಿಭಾಗ
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